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TITLE : HIGH SPEED STEEL TYPE SINTERED ALLOY

ABSTRACT : PURPOSE: To improve strength, wear resistance, surface roughing resistance, pitting corrosion resistance, and seizure resistance by specifying respective contents of C, Si, Mn, Cr, Mo, W, Co, etc., in a sintered alloy.

CONSTITUTION: The sintered alloy has a composition consisting of, by weight \leq 1.7% C, $>$ 0.6-3.5% Si, \leq 0.6% Mn, 3-8% Cr, 3-9% Mo, 5-14% W, 7-14% Co, \leq 8% of one or \geq 2 elements among V, Ti, and Nb, and the balance essentially Fe. Further, if necessary, either or both of \leq 2% B and \leq 3% Ni are substituted for a part of Fe. If HIP sintering, etc., are applied to this alloy, the high-density high speed steel type sintered alloy can be formed. By using this sintered alloy as a rolling roll barrel member, roll life can be prolonged.

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